

CLAIMS

What is claimed is:

1. An expending module for serial transmission, which receives a control signal and a data signal from a chip for data transmission, comprising:
 - 5 a plurality of interfacing units, which are integrated circuits that converts serial interface to other transmission formats;
 - a plurality of first OR gates corresponding to the interfacing units, the inputs of the first OR gates connected to the chip to receive control and data signals, which output a data signal to the corresponding interfacing unit;
 - 10 a plurality of second OR gates corresponding to the interfacing units, the inputs of the second OR gates connected to the chip to receive control signal and the corresponding units to receive data signal, which output and data signal; and
 - an AND gate with inputs connected to the second OR gates to receive data signal from the second OR gates and outputs a data signal to the chip.
- 15 2. The expending module for serial transmission in claim 1, wherein the chip outputs a low voltage data signal and a low voltage control signal to the interfacing unit, which signals are received by the input of the first OR gate corresponding to the interfacing unit, after logic calculation, a low voltage data signal is output to the interfacing unit which outputs a low voltage data signal to the second OR gate receiving the low voltage data
20 signal and low voltage control signal, after logic calculation, a low voltage data signal is sent to the AND gate which executes logic calculation and outputs back to the chip.
3. The expending module for serial transmission in claim 1, wherein the interfacing units are serial interface converting integrated circuits of different formats.
4. The expending module for serial transmission in claim 1, wherein the interfacing

unit is a serial to parallel interfacing integrated circuit.

5. The expending module for serial transmission in claim 1, wherein the interfacing unit is a serial to USB integrated circuits.

6. The expending module for serial transmission in claim 1, wherein said that it is a
5 serial to Ethernet integrated circuits.

7. The expending module for serial transmission in claim 1, wherein the serial interface is one selected from the group consisting of RS232, RS422 and RS485.

8. The expending module for serial transmission in claim 1, wherein the control
signal from the chip first passes through a decoder and then delivered to the first or second
10 OR gate.